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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,021	10/08/2004	Thomas Ahrndt	2002P05753WOUS 8724	
	7590 10/02/2007 perty Departement		EXAM	INER
170 Wood Avenue South			TRAN, QUOC DUC	
Iselin, NJ 08830			ART UNIT	PAPER NUMBER
		2614		
			MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/511,021	AHRNDT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Quoc D. Tran	2614			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address •			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE.	I. nely filed the mailing date of this communication. D. (35 U.S.C. 8 133)			
Status					
Responsive to communication(s) filed on <u>08 Octoor</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 2 and 3 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 2 and 3 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or claim(s) are subject to restriction and/or claim(s) are subjected to by the Examinet 10) The specification is objected to by the Examinet 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the claim of the correction of the claim of the correction is objected to by the Examinet 11) The oath or declaration is objected to by the Examinet 11) The oath or declaration is objected to by the Examinet 11).	vn from consideration. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the drawing(s) is objected to by the Edrawing(s) is objected to by the	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 10/8/2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed and 37 CFR 1.98(b)(5), which requires each publication listed in an information disclosure statement must be identified by publisher, author (if any), title, relevant pages of the publication, date (at least month and year), and place of publication (see attached 1449).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Descamps et al (6,865,256).

Consider claims 2-3, Descamps et al teach a method for determining the properties of a transmission channel (i.e., physical parameters) to qualifying for broadband services (see abstract) includes the steps of generating a plurality of pulses covering different frequency bands (corresponding to applying a time-discrete multicarrier transmit signal) (see col. 3 lines 54-60); detecting reflection or echoes at the same end of the channel (corresponding to measuring the echo pulse response y(n) of the subscriber line at the test point) (see col. 3 line 66 – col. 4 line 2);

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and processing the echoes provided by these pulses at the same end of the channel to provide information about the line or channel (corresponding to determining second complex-value random coefficient and empirical estimate of cross-correlation function) (see col. 4 line 3 – col. 6 line 9).

Descamps et al did not clearly disclosed of various "claimed" mathematical theorems or formulas used to determine the parameters of the subscriber line. However, mathematical theorems and formulas are well known in the art of communications to used for calculating or estimating characteristic of loop or line. Therefore, it would have been obvious to one of the ordinary to apply known mathematical theorems such as those described in the claims to obtain similar results, mainly, the physical parameters of the subscriber line or channel in order to qualify the line for high speed or broadband services.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any response to this action should be mailed to:

Mail Stop _____(explanation, e.g., Amendment or After-final, etc.)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Facsimile responses should be faxed to:

(571) 273-8300

Hand-delivered responses should be brought to:
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Quoc Tran** whose telephone number is (571) 272-7511. The examiner can normally be reached on M, T, TH and Friday from 8:00 to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Curtis Kuntz**, can be reached on (571) 272-7499.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600** whose telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

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September 22, 2007